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United States Patent 1191

Bendig et al.

Burney A

[11] Patent Number:

5,840,299

Date of Patent: [45]

Nov. 24, 1998

[54] HUMANIZED ANTIBODIES AGAINST LEUKOCYTE ADHESION MOLECULE VLA-4

[75] Inventors: Mary M. Bendig, London; Olivier J. Léger, Hertfordshire; José Saldanha, Enfield Middlesex; S. Tarran Jones, Radlett, all of United Kingdom; Ted A. Yednock, Fairfax, Calif.

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[21] Appl. No.: 561,521

[22] Filed: Nov. 21, 1995

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 186,269, which is a continuation-in-part of PCT/US95/01219 Jan. 25, 1995, abandoned.

[51]	Int. Cl.6	A61K 39/395; C07K 16/28;
		C12P 21/08; C12N 15/13
[52]	U.S. Cl	
. ,		; 424/143.1; 424/144.1; 424/153.1;
	424/	154.1; 424/173.1; 435/7.1; 435/7.2;
	435/7.	21; 435/7.24; 435/69.6; 435/172.3;
	435/251.3;	435/320.1; 530/387.3; 530/388.73;
	·	530/388.75; 530/388.22; 536/23.53
[52]	Field of Search	424/130.1. 133.1.

424/141.1, 143.1, 144.1, 153.1, 154.1, 173.1; 435/69.6, 172.3, 252.3, 320.1, 7.1, 7.2, 7.21, 7.24; 536/23.4, 23.5, 23.53; 530/387.1, 387.3, 388.2, 388.22, 388.7, 388.73, 388.75

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[57] ABSTRACT

The invention provides humanized immunoglobulins that specifically bind to the VLA-4 ligand, and methods of treatment using the same. The methods are particularly useful for treatment of multiple sclerosis.

29 Claims, 16 Drawing Sheets